

DEERE POWER SYSTEMS GROUP OF DEERE & COMPANY

EXECUTIVE ORDER U-R-004-0106 New Off-Road Compression-Ignition Engines

Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control systems produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)			
2002	2JDXL12.5029	12.5	Diesel	8000			
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION				
Electron	ic Control Module, Dire Turbocharger, Charge	ct Diesel Injection, Air Cooler	Loader				

The engine models and codes are attached.

The following are the exhaust certification standards (STD), or family emission limit(s) (FEL) as applicable, and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr); and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED POWER	EMISSION STANDARD				EXHAUST (g/kw-l	OPACITY (%)				
CLASS	CATEGORY		нс	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
130 <u><</u> KW < 225	Tier 1	STD	1.3	9.2	N/A	11.4	0.54	20	15	50
		FEL	N/A	6.2	N/A	N/A	N/A	N/A	N/A	N/A
		CERT	0.2	6.0		0.7	0.15	12	2	24

BE IT FURTHER RESOLVED: That the family emission limit(s) (FEL) is an emission level declared by the manufacturer for use in any averaging, banking and trading program and in lieu of an emission standard for certification. It serves as the applicable emission standard for determining compliance of any engine within this engine family under 13 CCR Sections 2423 and 2427.

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this 222 day of December 2001.

AR. B. Summerfield, Chief

Raphael Susmowth

Mobile Source Operations Division

Engine Model Sail ary Form

4-16-4-106

Manufacturer: Deere Power Systems Group of Deere and

Engine category: Nonroad Cl

EPA Engine Family. 2JDXL12,5029

Mfr Family Name: 650HE

Process Code: New Submission

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8.Fuot Rate: 9.Emission Control (Ibs/hr) @peak torque Device Per SAE J1930 7.95599 @157570 EM ECYCAC 102.29 @1500 72 EM ECYCAC					- Contract
					EL VIDETAGE
7.Fuel Rate: NM mm/stroke@peak torque 575 369@1575 500 202@1500	l models				
IP 6. Torque @ RPM) (SEA Gross) 0 (1843:66@1575) 1021.39@1500	t of certified water				
(lbs/) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	S S				
4.Fuel Rate: 3.BHP@RPM mm/stroke @ peak H 1.Engine Code 2.Engine Model (SAE Gross) (for diosel only) 6725/HF070A	A CONTINUE ONLY NOT INCLUDE IN				
3.BHP@RPM (SAE Gross) 504.22@2100 288.32@2000	AT TOOL				
2.Engine Model 6425H 6125H	Company of the second				
1.Engine Eode 6125HF070A 6125HDW01	NA N				A CONTRACTOR OF THE CONTRACTOR

Engine Model Su. .mary Form

Running Chang Est 1066

Manufacturer: Deere Power Systems Group of Deere and

Engine category: Nonroad Cl

EPA Engine Family: 2JDXL12.5029

Mfr Family Name: 650HE

Process Code: New Submission

Attachmond

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8.Fuel Rate: 9.Emission Control (bs/hr)@peak torque Device Per SAE J1930	11111 @ 1500 EM EQ CAC NE	102.29@1500							
7.Fuel Rate: mm/stroke@peak torque	219.6@1500	202@1500							
6.Torque @ RPM (SEA Gross)	1132.01@1500	1021.39@1500							
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	100.97@2000	99.87@2000							
4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	150.00@2000	148.00@2000	Section 1.	To common					
3.BHP@RPM (SAE Gross)	295.02@2000	288.32@2000							
2.Engine Model	6125H	6125H		A Committee of the Comm		-			
1.Engine Code	6125HDW01B	6125HDW01A							